

Serial No. 10/762,462
Docket No. 4710-0106P

AMENDED CLAIM SET:

1. (cancelled).

2. (previously presented) A composition comprising the following components:

100 parts by weight of an organopolysiloxane (A),

0.1 to 30 parts by weight of a crosslinking agent (B),

50 to 1,000 parts by weight of a polyvinyl alcohol homopolymer or copolymer (C),

0 to 5 parts by weight, as an active ingredient, of a catalyst (D),

100 to 100,000 parts by weight of water (E),

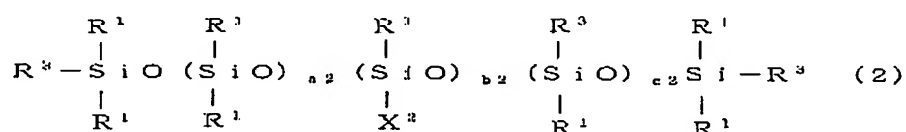
0.1 to 100 parts by weight of a surfactant (F), and

1 to 250 parts by weight of a silane (G) containing a hydrolyzable group, at least part of the silane (G) having been converted to silanol by hydrolyzing the hydrolyzable group and/or a condensate of the silanol,

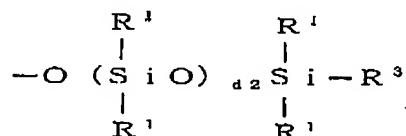
wherein

component (A) is a mixture of an organopolysiloxane (A2) having at least two hydroxyl groups and represented by the following average compositional formula (2):

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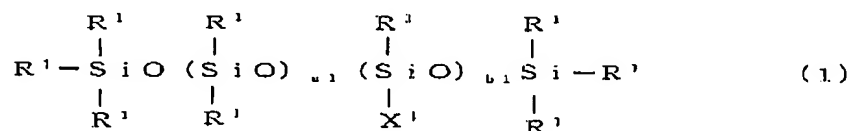


wherein each R^1 may be same or different and is a group having 1 to 20 carbon atoms selected from the group consisting of alkyl groups, alicyclic groups, and aryl groups, whose hydrogen atoms bonded to the carbon atoms may partly be replaced with a halogen atom or a cyano group, R^3 is a hydroxyl group, and X^2 is the group represented by the following formula:



wherein a_2 , b_2 , c_2 and d_2 are such numbers that the organopolysiloxane (A2) has a viscosity at 25 degrees C of from 0.05 to 500 Pa·s, and b_2 , c_2 and d_2 may be zero, and

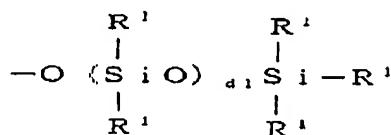
an organopolysiloxane (A1) represented by the following average compositional formula (1):



wherein each R^1 may be same or different and is a group having 1 to 20 carbon atoms selected from the group consisting of alkyl groups, alicyclic groups, and aryl groups, whose hydrogen atoms bonded to the carbon atoms may partly be

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replaced with a halogen atom or a cyano group, and X^1 is the group represented by the following formula:



wherein $a1$, $b1$ and $d1$ are such numbers that the organopolysiloxane (A1) has a viscosity at 25°C of from 0.05 to 500 Pa·s, and $b1$ and $d1$ may be zero, and component (B) is an organopolysiloxane (B2) having at least three SiH or hydrolyzable groups per molecule.

3. (original) The composition according to claim 2, wherein the organopolysiloxane (B2) is represented by the following formula: $R^1_f H_g SiO_{(4-f-g)/2}$, or $R^1_f W_g SiO_{(4-f-g)/2}$ wherein R^1 is as defined above, W is a hydrolyzable group, f and g are numbers with $0 \leq f \leq 3$, $0 \leq g \leq 3$, and $1 \leq f+g \leq 3$.

4. (original) The composition according to claim 3, wherein W is at least one selected from the group consisting of alkoxy groups, acyloxy groups, amino groups, amido groups and oxime groups.

5. - 8. (cancelled).

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9. (previously presented) The composition according to claim 1 [[8]], wherein the component (G) has at least two hydrolyzable groups per molecule selected from the group consisting of alkoxy groups, acyloxy groups, and oxime groups.

10. (previously presented) The composition according to any one of claims 2 to 4, wherein the component (C) is a polyvinyl alcohol copolymer of a vinyl acetate monomer with a co-monomer of 5 mole % or smaller based on a total amount of the monomer and the co-monomer.

11. (original) The composition according to claim 10, wherein the co-monomer is at least one selected from the group consisting of acrylic acid and derivatives thereof, methacrylic acid and derivatives thereof, styrene and derivatives thereof, alkenes having 4 carbon atoms, maleic anhydride and vinyl chloride.

12. (previously presented) The composition according to any one of claims 2 to 4, wherein the component (C) is at least one kind of polyvinyl alcohol homopolymer having a viscosity in a 4% aqueous solution at 20°C of 2 to 80 mPa·s and a degree of saponification of from 80 to 99.5 mole%.

13. (previously presented) A paper treatment agent comprising the composition according to any one of claims 2 to 4.

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14. (previously presented) Paper treated with a paper treatment agent comprising a composition comprising the following components:

100 parts by weight of an organopolysiloxane (A),
0.1 to 30 parts by weight of a crosslinking agent (B),
50 to 1,000 parts by weight of a polyvinyl alcohol homopolymer or copolymer (C),

0 to 5 parts by weight, as an active ingredient, of a catalyst (D),

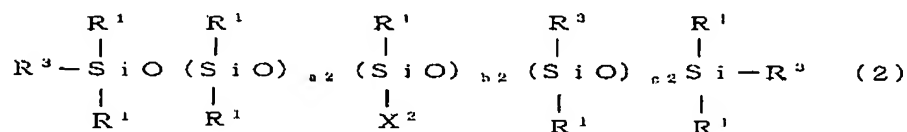
100 to 100,000 parts by weight of water (E), and

0.1 to 100 parts by weight of a surfactant (F), and

1 to 250 parts by weight of a silane (G) containing a hydrolyzable group, at least part of the silane (G) having been converted to silanol by hydrolyzing the hydrolyzable group and/or a condensate of the silanol,

wherein

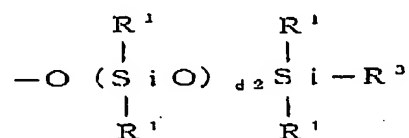
component (A) is a mixture of an organopolysiloxane (A2) having at least two hydroxyl groups and represented by the following average compositional formula (2):



wherein each R¹ may be same or different and is a group having 1 to 20 carbon atoms selected from the group consisting of alkyl groups, alicyclic groups, and aryl groups, whose hydrogen atoms bonded to the carbon atoms may partly be

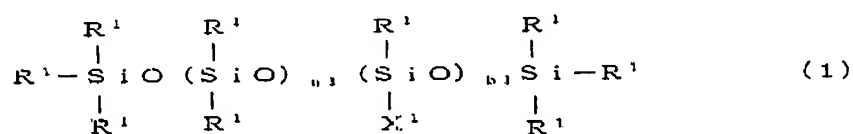
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replaced with a halogen atom or a cyano group, R^3 is a hydroxyl group, and X^2 is the group represented by the following formula:



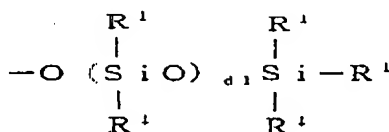
wherein $a2$, $b2$, $c2$ and $d2$ are such numbers that the organopolysiloxane (A2) has a viscosity at 25 degrees C of from 0.05 to 500 Pa·s, and $b2$, $c2$ and $d2$ may be zero, and

an organopolysiloxane (A1) represented by the following average compositional formula (1):



wherein each R^1 may be same or different and is a group having 1 to 20 carbon atoms selected from the group consisting of alkyl groups, alicyclic groups, and aryl groups, whose hydrogen atoms bonded to the carbon atoms may partly be replaced with a halogen atom or a cyano group, and X^1 is the group represented by the following formula:

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wherein a1, b1 and d1 are such numbers that the organopolysiloxane (A1) has a viscosity at 25°C of from 0.05 to 500 Pa·s, and b1 and d1 may be zero, and component (B) is an organopolysiloxane (B2) having at least three SiH or hydrolyzable groups per molecule.

15. (previously presented) The paper according to claim 14, wherein the organopolysiloxane (B2) is represented by the following formula: $R^1_f H_g SiO_{(4-f-g)/2}$, or $R^1_f W_g SiO_{(4-f-g)/2}$ wherein R^1 is as defined above, W is a hydrolyzable group, f and g are numbers with $0 \leq f \leq 3$, $0 \leq g \leq 3$, and $1 \leq f+g \leq 3$.

16. (previously presented) The composition according to claim 15, wherein W is at least one selected from the group consisting of alkoxy groups, acyloxy groups, amino groups, amido groups and oxime groups.